

Matti Ko Reinikainen

List of Publications by Year in descending order

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37
papers

1,096
citations

394421

19
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395702

33
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37
all docs

37
docs citations

37
times ranked

1369
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation on catalytic pyrolysis of pine sawdust: Catalyst screening by Py-GC-MIP-AED. <i>Journal of Analytical and Applied Pyrolysis</i> , 2010, 88, 7-13.	5.5	125
2	A review of catalytic aqueous-phase reforming of oxygenated hydrocarbons derived from biorefinery water fractions. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 11003-11032.	7.1	117
3	Power-to-X technology using renewable electricity and carbon dioxide from ambient air: SOLETAIR proof-of-concept and improved process concept. <i>Journal of CO2 Utilization</i> , 2018, 28, 235-246.	6.8	99
4	Acidic and basic surface sites of zirconia-based biomass gasification gas clean-up catalysts. <i>Applied Catalysis A: General</i> , 2009, 362, 169-177.	4.3	70
5	Co-processing of Dry Bio-oil, Catalytic Pyrolysis Oil, and Hydrotreated Bio-oil in a Micro Activity Test Unit. <i>Energy & Fuels</i> , 2015, 29, 3707-3714.	5.1	65
6	Behaviour of tars on the filter in high temperature filtration of biomass-based gasification gas. <i>Fuel</i> , 2015, 139, 220-231.	6.4	54
7	Oxygenates from syngas over highly dispersed cobalt catalysts. <i>Catalysis Today</i> , 1997, 36, 311-324.	4.4	50
8	Aqueous-phase reforming of bio-oil aqueous fraction over nickel-based catalysts. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 13157-13168.	7.1	43
9	Characterisation and activity evaluation of silica supported cobalt and ruthenium catalysts. <i>Applied Catalysis A: General</i> , 1998, 174, 61-75.	4.3	40
10	Aqueous-phase reforming of methanol over nickel-based catalysts for hydrogen production. <i>Biomass and Bioenergy</i> , 2017, 106, 29-37.	5.7	39
11	Hydrogen release from liquid organic hydrogen carriers catalysed by platinum on rutile-anatase structured titania. <i>Chemical Communications</i> , 2020, 56, 1657-1660.	4.1	37
12	Catalytic clean-up of gasification gas with precious metal catalysts – A novel catalytic reformer development. <i>Fuel</i> , 2010, 89, 3272-3277.	6.4	34
13	Short Vapour Residence Time Catalytic Pyrolysis of Spruce Sawdust in a Bubbling Fluidized-Bed Reactor with HZSM-5 Catalysts. <i>Topics in Catalysis</i> , 2013, 56, 800-812.	2.8	29
14	The activity of carbonyl cluster derived Co-RuSiO ₂ and Co-RhSiO ₂ catalysts in CO hydrogenation. <i>Journal of Molecular Catalysis A</i> , 1996, 106, 187-195.	4.8	26
15	Laser Spectroscopy for Monitoring of Radiocarbon in Atmospheric Samples. <i>Analytical Chemistry</i> , 2019, 91, 12315-12320.	6.5	25
16	Selective vapor phase hydroformylation of ethylene over cluster-derived cobalt catalyst. <i>Catalysis Letters</i> , 1991, 8, 253-261.	2.6	21
17	CO hydrogenation activity of carbonyl cluster derived Co-RuSiO ₂ catalysts prepared by reflux method. <i>Journal of Molecular Catalysis A</i> , 1997, 118, 137-144.	4.8	21
18	Effects of modification of highly dispersed cobalt catalysts with alkali cations on the hydrogenation of carbon monoxide. <i>Catalysis Letters</i> , 1991, 10, 193-199.	2.6	20

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19	Use of silicate crystallite mesoporous material as catalyst support for Fischer-Tropsch reaction. Applied Surface Science, 1998, 130-132, 845-850.	6.1	20
20	Aqueous-phase reforming of Fischer-Tropsch alcohols over nickel-based catalysts to produce hydrogen: Product distribution and reaction pathways. Applied Catalysis A: General, 2018, 567, 112-121.	4.3	19
21	The Effect of Sulfur on ZrO ₂ -Based Biomass Gasification Gas Clean-Up Catalysts. Topics in Catalysis, 2009, 52, 1070-1078.	2.8	17
22	Precious metal catalysts in the clean-up of biomass gasification gas Part 1: Monometallic catalysts and their impact on gasification gas composition. Fuel Processing Technology, 2011, 92, 1457-1465.	7.2	17
23	Kinetic Study Based on the Carbide Mechanism of a Co-Pt/ β -Al ₂ O ₃ Fischer-Tropsch Catalyst Tested in a Laboratory-Scale Tubular Reactor. Catalysts, 2019, 9, 717.	3.5	15
24	The effect of decomposition atmosphere on the activity and selectivity of the carbonyl cluster derived Co/SiO ₂ and Rh/SiO ₂ catalysts. Journal of Molecular Catalysis A, 1997, 121, 1-8.	4.8	12
25	Kinetic Modelling of the Aqueous-Phase Reforming of Fischer-Tropsch Water over Ceria-Zirconia Supported Nickel-Copper Catalyst. Catalysts, 2019, 9, 936.	3.5	12
26	Promoting effects of alkaline earth oxides on the vapor phase carbonylation of ethene over cluster-derived cobalt catalysts. Applied Catalysis, 1991, 73, 281-287.	0.8	11
27	TPR and FT-IR studies on carbonyl cluster derived Co-Ru/SiO ₂ catalysts. Applied Catalysis A: General, 1997, 149, 353-372.	4.3	11
28	Thermal plasma-sprayed nickel catalysts in the clean-up of biomass gasification gas. Fuel, 2011, 90, 1076-1089.	6.4	11
29	Study of Formaldehyde and Formic Acid Contamination Effect on PEMFC. Journal of the Electrochemical Society, 2018, 165, F718-F727.	2.9	11
30	Effect of gasification gas components on naphthalene decomposition over ZrO ₂ . Catalysis Today, 2009, 147, S230-S236.	4.4	9
31	On-Line Monitoring of Radiocarbon Emissions in a Nuclear Facility with Cavity Ring-Down Spectroscopy. Analytical Chemistry, 2021, 93, 16096-16104.	6.5	9
32	Selective Vapor Phase Hydroformylation of Olefins Over Cluster-Derived Cobalt Catalysts Promoted by Alkaline Earth Oxides. Studies in Surface Science and Catalysis, 1993, 75, 2297-2300.	1.5	3
33	The Effect of Atomic Layer Deposited Overcoat on Co-Pt-Si/ β -Al ₂ O ₃ Fischer-Tropsch Catalyst. Catalysts, 2021, 11, 672.	3.5	2
34	The interrelation of the preparation method and activity of the Co-Ru/SiO ₂ catalysts. Studies in Surface Science and Catalysis, 1998, 118, 229-236.	1.5	1
35	On-Line Gas Chromatographic Analysis of CO ₂ Hydrogenation Products. Studies in Surface Science and Catalysis, 2004, 153, 565-568.	1.5	1
36	Reactions of synthesis gas on CoRu/SiO ₂ and CoRu/SiO ₂ . Studies in Surface Science and Catalysis, 1998, 119, 161-166.	1.5	0

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37	Effect of Co-fed Water on a CoPtSi ³ -Al ₂ O ₃ Fischer-Tropsch Catalyst Modified with an Atomic Layer Deposited or Molecular Layer Deposition Overcoating. ACS Omega, 2022, 7, 7725-7736.	3.5	0